







Countif, Sumif, Averageif

These 3 functions can calculate specific things in your data, allowing you to do useful analysis.

C	ountif counts how many times a specific thing appears in your data. It has 2 elements.	Function Arguments	
R u C	Range: The range of cells you want evaluated. You can either se a cell range like \$D\$2:\$D\$30, or a column range like D:D. riteria: The specific thing you are counting in the range. It can	COUNTIF Range Criteria	D:D H2
	be either text of a cell reference.		
Sı	umif adds together all the numbers that match a specific thing.	Function Arguments	
	It contains a Countif within it, so the range and criteria are	SUMIF	
	identical.	Range	D:D
S	sum Range: What numbers are being counted from the same row after it finds the criteria.	Criteria Sum_range	H2 E:E
A	Averageif creates an average of all the numbers that match a specific thing.	Function Arguments	
	It contains a Countif within it, so the range and criteria are identical.	- AVERAGEIF Range Criteria	D:D
	Average Range: What numbers are being counted from the same row after it finds the criteria.	Average_range	E:E





If is one of the most versatile functions in Excel. It has 3 Elements:

Ensure you are creating Absolute References where needed.

Not equal to

Function Arguments					
IF					
Logic	al_test	B5>=5000	1	=	TRUE
Value	_if_true	B5*10%	1	=	500
Value_	if_false	"Under Performed"	1	=	"Under Performed"





Conditional Formatting

ID no.	Branch	Buy Price	Sale Date	Selling Price	Revenue	Cost
13	Emersons Green	£176,075	20/01/2024	£189,000	£1,255	£609.00
364	Kingswood	£171,183	21/01/2024	£229,917	£1,340	£629.00
31	Kingswood	🛆 £136,263	19/08/2024	£222,644	£1,580	£806.00
148	Emersons Green	🔶 £110,882	21/01/2024	£213,900	£1,898	£855.00
364	Kingswood	🔶 £133,090	11/12/2023	£196,582	£1,100	£606.00
107	St George	£157,171	24/07/2024	£226,265	£1,934	£816.00
78	Hanham	📥 £146,636	17/08/2024	£183,332	£882	£576.00
109	St George	£164,801	12/08/2024	£232,348	£1,531	£773.00
113	Brislington	🔶 £113,836	18/06/2024	£213,900	£1,480	£9,540.00
16	Fishponds	📥 £136,926	01/08/2024	£183,401	£950	£705.00
140	Kingswood	£162,035	20/01/2024	£209,690	£1,921	£877.00
364	Hanham	📥 £149,284	21/01/2024	£169,045	£1,592	£666.00
96	Kingswood	🔶 £132,401	20/01/2024	£222,176	£1,867	£845.00
174	Brislington	£172,149	07/08/2024	£197,800	£1,166	£595.00
91	St George	📥 £154,259	28/07/2024	£214,168	£1,111	£594.00
71	Hanham	£178,489	08/08/2024	£166,658	£1,615	£788.00
88	Kingswood	📥 £148,629	20/01/2024	£224,647	£1,143	£552.00
117	St George	📥 £134,763	30/07/2024	£206,156	£1,643	£786.00
85	St George	🔶 £118,473	20/01/2024	£224,072	£2,034	£896.00
26	Hanham	📥 £141,726	07/08/2024	£218,983	£1,699	£894.00
146	Hanham	🛆 £155,584	28/07/2024	£161,644	£1,732	£845.00
135	St George	£164,136	21/01/2024	£204,875	£1,541	£710.00
	Ch C	A	00/00/2024	C220 420	C4 CE0	6774 00

Conditional formatting allows you to change the colour of a cell based on the data that is in the cell.

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Formatting * Table * Styles *	<u>G</u> reater Than	Top 10 Items	Gradient Fill		▲ ━ ▼ ↑ ೫ № ↓	↓ × × × × × × × × × × × × × × × × × × ×
Highlight Cells Rules >	Less Than	Top 10 %			↑ ೫ → ≌ ♦	
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Data Bars	Equal To	Bottom 10 %				
Color Scales	Iext that Contains		Solid Fill		Indicators	
icon Sets >	A Date Occurring					√ ! X
New Rule	Duplicate Values				Ratings	
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Hanage <u>R</u> ules		•		,		

You can use the presets to create several different formatting rules.

You can highlight specific values, see dates or duplications, find the top or bottom values, create data bars in each cell or display a RAG status.

Don't forget that you can click on 'Clear Rules' and 'Manage Rules' to edit your conditional formatting if you need to.





You can enter a date as 1/1/24 or 1-1-24.

You can also use Keyboard Shortcuts. Current Date: Ctrl + ; Current Time: Ctrl + Shift + ;



30/04/2024

12:33

You can use the Today and Now functions to give dynamic date and time references. You can use these in any date calculation to get rolling totals.

Excel stores dates as numbers. Each day is the next number upwards. You can use the number formatting dropdown to change them between numbers and dates.

This means basic maths with dates are very simple.

Find the number of days between 2 dates: ='Future Date' – 'Past Date'

Find a date in the future: ='Date' + 'Number of Days'

Find a date in the past: ='Date' – 'Number of Days'.

30/04/2024	45412
16/08/2024	45520





You can add a cell reference from another sheet by simply clicking on the sheet and then the cell when writing your calculations.

='Invoice 1'!M2

=COUNT('Invoice 1'!B:B,'Invoice 2'!A:A)

 $f_x \sim$

You can always follow along with your calculation as you write it by looking at the formula bar.

'Invoice 1'!G:G

'Invoice 2'!C:C

AVERAGE

North

Number1

Number2

South

This works in any calculation, and can be done whether you are writing in the cell itself or using the FX button.

='Invoice 1'!N2+'Invoice 2'!K2

If you hold shift as you select sheets, you can group them together. This allows you to replicate anything you do in one sheet identically in the others you have grouped.

You can also use sheet grouping to easily create summaries.

East

West

=SUM(North:West!B3)





Flash Fill

Last Name	First Name	Full Name
Burgess	Ellie	Ellie Burgess
Smith	Barbara	barbara Smith
Zhang	Dae	Dae Zhang
Kim	Kazumi	Kazumi Kim
Patel	Yuki	Yuki Patel
Wang	Mei	Mei Wang
Nguyen	Akira	Akira Nguyen
Lee	Takumi	Takumi Lee

You can do things like:

- Combine names from different columns into one
- Split names from one column to multiple
- Add punctuation into number strings
- Remove email addresses from names

Email Adress With Names	Names Extracted from Email		
Lottie.Dodwell@example.com	Lottie Dodwell		
Felix.Henderson@example.com	felix Henderson		
Bex.Hodgekiss@example.com	Bex Hodgekiss		
Millie.Callaghan@email.com	Millie Callaghan		
Eleanor. Morrissey@senario.com	Eleanor Morrissey		
Chansey. White@instance.com	Chansey White		
Belvides.Sumbo@example.com	Belvides Sumbo		
Becca.Russell@example.com	Becca Russell		
Katie.Pality@example.com	Katie Pality		

Flash fill allows you to take data from one list, change it, and then populate it into a different column.

You must fill out the first entry, then either type the first letter of the second entry or press Ctrl + E

ID Number	ID Number (nnn-nnn-nnn)
123456789	123-456-789
849315495	849-315-495
807497512	807-497-512
458235485	458-235-485
315164582	315-164-582
387474195	387-474-195
273635648	273-635-648
7004040	700 454 040

You must ensure that you spell the first entry correctly, and that the entries are in the same format.

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Charts



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Click on Insert on your ribbon, and you can choose from a vast selection of charts to visualise your data.



To the right of your chart, you can click on the Elements, Styles and Filters buttons to edit and amend your chart.



You can create multiple charts from the same data, and change the filters to show completely different analysis.





Auditing Sheets

There are a lot of errors you may encounter in Excel. They are often easy to diagnose and fix.



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Auditing Sheets



=COUNTA(A39:A47)

All calculations start with an = sign. A space beforehand will turn your calculation into a text reference. Ensure your calculations are displayed properly.

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